From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

HENRY TANG BAKER & BOTTS, LLP 30 ROCKEFELLER PLAZA NEW YORK NY 10112-0228

## PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

**27** DEC 1999

Applicant's or agent's file reference

31358-PCT

IMPORTANT NOTIFICATION

Priority Date (day/month/year)

PCT/US98/22790

International application No.

27 OCTOBER 1998

International filing date (day/ month/year)

27 OCTOBER 1997

Applicant

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Pacsimile No. (703) 305-3230

Authorized officer

JEAN W. DESI

Telephone No. (703) 308-9571



# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

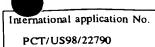
Applicant's or agent's file reference 31358-PCT	FOR FURTHER ACTION		cation of Transmittal of International Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day)	month/year)	Priority date (day/month/year)		
PCT/US98/22790	27 OCTOBER 1998		27 OCTOBER 1997		
International Patent Classification (IPC) or national classification and IPC Please See Supplemental Sheet.					
Applicant THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK					
This international preliming     Examining Authority and is	ary examination report he transmitted to the applican	as been prepa nt according to	red by this International Preliminary Article 36.		
2. This REPORT consists of a	total of 4 sheets.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a to	otal of <u><b>6</b></u> sheets.				
3. This report contains indication	ns relating to the following	; items:			
I X Basis of the repo	ort				
II Priority					
III Non-establishme	nt of report with regard to	novelty, inven	tive step or industrial applicability		
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement					
VI Certain documents cited					
VII Certain defects in	the international application				
VIII Certain observation	ns on the international appli	cation			
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·					
Date of submission of the demand	D	ate of completion	on of this report		
27 MAY 1999		10 DECEMBI	ER 1999		
Name and mailing address of the IF L.	j	uthorized office	Co Peron in		
Commissioner of Patents and Trade	marks	JEAN W. DE	SIR Sugnia ogan		
Washington, D.C. 2023 I		elephone No.			



nternational application No.	
PCT/US98/22790	

I. Basis of the report				
1. This report has been drawn on the basis of (Substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments):				
		l application as origin		
[X]			, as originally filed.	
ت	the description,		, filed with the demand.	
			, filed with the letter of	
			filed with the letter of	
		•		
X	the claims,		_ , as originally filed.	
٠			_ , as amended under Article 19.	
			_ , filed with the demand.	
			, filed with the letter of	
		Nos	_ , filed with the letter of	
<u>x</u>	the drawings,	sheets/fig 1-5	, as originally filed	
د ا		sheets/fig NONE	, filed with the demand.	
		sheets/fig NONE	, filed with the letter of	
		sheets/fig	, filed with the letter of	
x x	the claims,	Nos. NONE sheets/ <del>fig</del> NONE	·	
لما	0 /	•		
to g	s report has been e to beyond the discle al observations, i	osure as filed, as indicate	f) the amendments had not been made, since they have been considered ed in the Supplemental Box Additional observations below (Rule 70.2(c)).	
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			•	
I				





STATEMENT					
Novelty (N)	i.	Claims	NONE	·	YE
		Claims	1-5		NO
Inventive Step (IS	5)	Claims	NONE		YE
·		Claims			
Industrial Applica	ability (IA)	Claims	1-5		YE
maastrar / tpp://ww	(,	Claims	NONE		
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#### Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLA	SSI	FIC	AT.	ION:
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The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(6): H04K 1/00; H04L 9/00; G09C 5/00 and US C1.: 380/4; 382/100, 232; 348/589, 600, 586; 345/194, 116, 114, 113



# **REQUEST**

For ing Office use only	
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Applicati	on"
A licently on opently file ofference	

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"			
	Applicant's or agent's file reference (if desired) (12 characters maximum)  31358-PCT			
BOX NO. I TITLE OF INVENTION WATERMARKING OF DIGITAL IMAGE DATA				
Box No. II APPLICANT	·			
Name and address: (Family name followed by given name; for a legal entity, full official The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  This person is also inventor.				
THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CIT 116th Street and Broadway New York, NY 10027	TY OF NEW YORK  Facsimile No.			
us	Teleprinter No.			
State (that is, country) of nationality: US	State (that is, country) of residence: US			
This person is applicant all designated for the purposes of:	cd States except the United States the States indicated in States of America only the Supplemental Box			
Box No. III FURTHER APPLICANT(S) AND/OR (FUR	THER) INVENTOR(S)			
Name and address: (Family name followed by given name: for a legal of The address must include postal code and name of country. The country Box is the applicant's State (that is, country) of residence if no State of resid	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)			
State (that is, country) of nationality:  CN	State (that is, country) of residence: US			
for the purposes of: L States L the United	ed States except States of America the United States the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated on a continuation sheet.				
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE				
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:				
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)  (212) 705-5000				
TANG, HENRY and BUSINGER, PETER A. Baker & Botts, LLP 30 Rockefeller Plaza	Facsimile No. (212) 705-5020			
New York, NY 10112-0228 US Teleprinter No.				
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.				

Sheet No. ...?...

Continuation of Box No. III FORTHER APPLICANTS AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet is not to be included in the request.				
Name and address: (Family name followed by given name; for a legal er The address must include postal code and name of country. The country Box is the applicant's State (that is, country) of residence if no State of res	of the address indicated in this			
MENG, JIANHAO 435 West 119th Street, #9L	applicant only			
New York, NY 10027	applicant and inventor			
·	inventor only (If this check-box is marked, do not fill in below.)			
State (that is, country) of nationality:	State (that is, country) of residence:			
This person is applicant all designated for the purposes of:	d States except the United States the States indicated in tates of America only the Supplemental Box			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country Box is the applicant's State (that is, country) of residence if no State of res	of the address indicated in this			
	applicant only			
	applicant and inventor			
	inventor only (If this check-box is marked, do not fill in below.)			
State (that is, country) of nationality:	State (that is, country) of residence:			
This person is applicant all designated all designated for the purposes of:	d States except the United States the States indicated in tates of America only the Supplemental Box			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country Box is the applicant's State (that is, country) of residence if no State of re.	of the address indicated in this			
	applicant only			
·	applicant and inventor			
	inventor only (If this check-box is marked, do not fill in below.)			
State (that is, country) of nationality:	State (that is, country) of residence:			
This person is applicant all designated for the purposes of:	d States except the United States the States indicated in tates of America only the Supplemental Box			
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)				
	applicant only			
	applicant and inventor			
	inventor only (If this check-box is marked, do not fill in below.)			
State (that is, country) of nationality:	State (that is, country) of residence:			
This person is applicant all designated States except the United States of America only the States indicated in the Supplemental Box				
Further applicants and/or (further) inventors are indicated or	Further applicants and/or (further) inventors are indicated on another continuation sheet.			

Box N	ox No.V DESIGNATION OF STEES					
The fo	The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):					
Regional Patent						
	AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT					
	EA	Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT				
X	EP	P European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT				
	OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)					
Natio	nal F	Patent (if other kind of protection or treatment desired,	speci	fy on a	dotted line):	
	ΑL	Albania		LS	Lesotho	
		Armenia	$\overline{\Box}$		Lithuania	
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$\bar{\Box}$	AU		Ħ		Latvia	
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	BR	Brazil		MN	Mongolia	
	BY	Belarus	$\overline{\Box}$		Malawi	
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		and LI Switzerland and Liechtenstein	$\overline{\Box}$		Norway	
	CN		$\overline{\Box}$		New Zealand	
	CU		$\overline{\Box}$		Poland	
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	EE	Estonia	$\overline{\Box}$	SD	Sudan	
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×	KR		<u> </u>			
	KZ		Che	ck-bo	exes reserved for designating States (for the purposes of d patent) which have become party to the PCT after	
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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

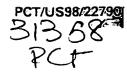
Sheet No. ....4...

Box No. VI PRIORITY C	LA	urther priority	claim indicated in	he Supplemental Box.	
Filing date	Number	W	here earlier application		
of earlier application (day/month/year)	of earlier application	national application: country	regional application:* regional Office	international application: receiving Office	
item (1) 27 October 1997	60/063,509	US			
item (2)					
item (3)					
of the earlier application	OD(s) (only if the earlier international application URPO application it is marchet	transmit to the International application was filed with is the receiving Office) iden ory to indicate in the Supplemental filed (Rule 4.10(b)(ii)). See Supplemental	the Office which for the tified above as item(s):	e (1)	
Box No. VII INTERNATI	ONAL SEARCHING A	UTHORITY			
Choice of International Searching (if two or more International Seconderent to carry out the internat Authority chosen; the two-letter code	earching Authorities are tional search, indicate the	Request to use results of ear search has been carried out by of Date (day/month/year)	r requested from the Internation		
ISA/ us					
Box No. VIII CHECK LIS	T: LANGUAGE OF FI	LING			
This international application of the following number of sheet		onal application is accompa- ulation sheet	nied by the item(s) mar	ked below:	
request :	4 2. □ separate	signed power of attorney	•		
description (excluding)	<b>-</b> '	general power of attorney; r	eference number, if any	<b>:</b>	
sequence listing part) : /	// I · · ·	nt explaining lack of signatu	_		
claims :	/	document(s) identified in Be		·	
abstract :	/ I	ion of international application			
drawings : E		e indications concerning depo		r other biological material	
sequence listing part of description	8. nucleot	ide and/or amino acid sequer		•	
Total number of sheets:	9. 🔀 other (s	pecify): Transmittal Letter			
Figure of the drawings which should accompany the abstract		anguage of filing of the		glish	
Box No. IX SIGNATURE	OF APPLICANT OR				
Next to each signature, indicate obvious from reading the reque	te the name of the personst).  Petto	n signing and the capacity in signing and the capacity in the	n which the person sig	ns (if such capacity is no	
Date of actual receipt of the	For r	eceiving Office use only		2. Drawings:	
international application:  3. Corrected date of actual rectimely received papers or details.	eipt due to later but			received:	
purported international application:  4. Date of timely receipt of the required				not received	
5. International Searching Aut (if two or more are compete	thority TC A /		ul of search copy delaye	d	
Date of receipt of the record co by the International Bureau:	ppy For Ir	nternational Bureau use only			

# **PCT**

-	For receiving Office use only	

FEE CALCULATION SHEET	International application No.		
Annex to the Request	поставления фримания		
Applicant's or agent's file reference 31358-PCT	Date stamp of the receiving Office		
Applicant THE TRUSTEES OF COLUMBIA UNIVESITY IN THE CITY OF	NEW YORK		
CALCULATION OF PRESCRIBED FEES			
1. TRANSMITTAL FEE	240.00 T		
2. SEARCH FEE  International search to be carried out by  (If two or more International Searching Authorities are comp.	etent in relation to the international		
application, indicate the name of the Authority which is chosen to c	arry out the international search.)		
3. INTERNATIONAL FEE			
Basic Fee  The international application contains sheets.  first 30 sheets x =	b <sub>1</sub>		
Add amounts entered at b 1 and b 2 and enter total at B	В		
Designation Fees The international application contains6 designations6 x105.00 = number of designation fees payable (maximum 11)	630.00 D		
Add amounts entered at B and D and enter total at I  (Applicants from certain States are entitled to a reduction of 75% of international fee. Where the applicant is (or all applicants are) so entit the total to be entered at I is 25% of the sum of the amounts entered at B	the led, and		
4. FEE FOR PRIORITY DOCUMENT (if applicable)	15.00 P		
5. TOTAL FEES PAYABLE Add amounts entered at T, S, I and P, and enter total in the TOTAL	L box 1375.00		
• .	TOTAL		
The designation fees are not paid at this time.			
MODE OF PAYMENT  authorization to charge deposit account (see below)  cheque  postal money order  bank draft  cash  revenue stamps	coupons other (specify):		
DEPOSIT ACCOUNT AUTHORIZATION (this mode of payme	nt may not be available at all receiving Offices)		
The RO/ is hereby authorized to charge the total fees indicated above to my deposit account.			
is hereby authorized to charge the fee for	ency or credit any overpayment in the total fees indicated above to my preparation and transmittal of the priority document to the International		
Bureau of WIPO to my deposit account.			
02-4377 27 October 1998	Peter A. Buenour		
Deposit Account Number Date (day/month/year)  Form PCT/RO/101 (Annex) (July 1998)	Signature See Notes to the fee calculation sheet		



#### **PCT**

# NOTIFICATION OF RECEIPT OF RECORD COPY

(PCT Rule 24.2(a))

#### From the INTERNATIONAL BUREAU

To:

TANG, Henry
Baker & Botts, LLP
30 Rockefeller Plaza
New York, NY 10112-0228
ÉTATS-UNIS D'AMÉRIQUE
99 JAN -7 AM 10: 50

Date of mailing (day/month/year) 14 December 1998 (14.12.98)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 31358-PCT	International application No. PCT/US98/22790

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (for all designated States except US)

CHANG, Shih-Fu et al (for US)

International filing date

27 October 1998 (27.10.98)

Priority date(s) claimed

27 October 1997 (27.10.97)

Date of receipt of the record copy by the International Bureau

08 December 1998 (08.12.98)

List of designated Offices

EP:AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE

National :CA,JP,KR,MX,US

#### **ATTENTION**

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

X time limits for entry into the national phase

X confirmation of precautionary designations

X requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer:

Dorothée Mülhausen

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

#### INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated in the Notification of Receipt of Record Copy (Form PCT/IB/301) by paying national fees and furnishing translations, as prescribed by the applicable national laws.

The time limit for performing these procedural acts is 20 MONTHS from the priority date or, for those designated States which the applicant elects in a demand for international preliminary examination or in a later election, 30 MONTHS from the priority date, provided that the election is made before the expiration of 19 months from the priority date. Some designated (or elected) Offices have fixed time limits which expire even later than 20 or 30 months from the priority date. In other Offices an extension of time or grace period, in some cases upon payment of an additional fee, is available.

In addition to these procedural acts, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure that the necessary steps to enter the national phase are taken in a timely fashion. Most designated Offices do not issue reminders to applicants in connection with the entry into the national phase.

For detailed information about the procedural acts to be performed to enter the national phase before each designated Office, the applicable time limits and possible extensions of time or grace periods, and any other requirements, see the relevant Chapters of Volume II of the PCT Applicant's Guide. Information about the requirements for filing a demand for international preliminary examination is set out in Chapter IX of Volume I of the PCT Applicant's Guide.

GR and ES became bound by PCT Chapter II on 7 September 1996 and 6 September 1997, respectively, and may, therefore, be elected in a demand or a later election filed on or after 7 September 1996 and 6 September 1997, respectively, regardless of the filing date of the international application. (See second paragraph above.)

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

#### **CONFIRMATION OF PRECAUTIONARY DESIGNATIONS**

This notification lists only specific designations made under Rule 4.9(a) in the request. It is important to check that these designations are correct. Errors in designations can be corrected where precautionary designations have been made under Rule 4.9(b). The applicant is hereby reminded that any precautionary designations may be confirmed according to Rule 4.9(c) before the expiration of 15 months from the priority date. If it is not confirmed, it will automatically be regarded as withdrawn by the applicant. There will be no reminder and no invitation. Confirmation of a designation consists of the filing of a notice specifying the designated State concerned (with an indication of the kind of protection or treatment desired) and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.

#### REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents, the following is recalled.

Where the priority of an earlier national, regional or international application is claimed, the applicant must submit a copy of the said earlier application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date, provided that any such priority document may still be submitted to the International Bureau before that date of international publication of the international application, in which case that document will be considered to have been received by the International Bureau on the last day of the 16-month time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit and may be subjected by the receiving Office to the payment of a fee (Rule 17.1(b)).

If the priority document concerned is not submitted to the International Bureau or if the request to the receiving Office to prepare and transmit the priority document has not been made (and the corresponding fee, if any, paid) within the applicable time limit indicated under the preceding paragraphs, any designated State may disregard the priority claim, provided that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity to furnish the priority document within a time limit which is reasonable under the circumstances.

Where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit is the filing date of the earliest application whose priority is claimed.

PCT/US98/227

#### From the INTERNATIONAL BUREAU

PCT

#### NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

Date of mailing (day/month/year)

To

RECEIVED BAMER CLEATION

99 JAN -7 AH 10: 50

TANG, Henry Baker & Botts, LLP 30 Rockefeller Plaza

New York, NY 10112-0228 ÉTATS-UNIS D'AMÉRIQUE

THE LEY

22 December 1998 (22.12.98)	
Applicant's or agent's file reference 31358-PCT	IMPORTANT NOTIFICATION
International application No. PCT/US98/22790	International filing date (day/month/year) 27 October 1998 (27.10.98)
International publication date (day/month/year)  Not yet published	Priority date (day/month/year) 27 October 1997 (27.10.97)

Applicant

#### THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK et al

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the
  International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise
  indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority
  document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date

Priority application No.

Country or regional Office or PCT receiving Office

Date of receipt of priority document

27 Octo 1997 (27.10.97)

60/063,509

US

08 Dece 1998 (08.12.98)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Carlos Naranjo

The

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35

#### PCT

#### NOTICE INFORMING THE APPLICANT OF THE **COMMUNICATION OF THE INTERNATIONAL** APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

TANG, Henry Baker & Botts, LLP 30 Rockefeller Plaza

99 MAY 18

BAKER & EOT

New York, NY 10112-0228

From the INTERNATIONAL BUREAU

ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year)

06 May 1999 (06.05.99)

Applicant's or agent's file reference

31358-PCT

IMPORTANT NOTICE

International application No. PCT/US98/22790

International filing date (day/month/year)

27 October 1998 (27.10.98)

Priority date (day/month/year) 27 October 1997 (27.10.97)

**Applicant** 

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK et al

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

EP, JP, KR, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

CA,MX

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 06 May 1999 (06.05.99) under No. WO 99/22480

#### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35

РСТ/US98/22799 313S8 РСТ

From the INTERNATIONAL BUREAU

To:

99 JUL 13 AM 11: 48

INFORMATION CONCERNING ELECTED OFFICES NOTIFIED OF THEIR ELECTION

PCT

(PCT Rule 61.3)

TANG, Henry
Baker & Botts, LLP
30 Rockefeller Plaza
New York, NY 10112-0228
ÉTATS-UNIS D'AMÉRIO

Date of mailing (day/month/year)

22 June 1999 (22.06.99)

Applicant's or agent's file reference

31358-PCT

IMPORTANT INFORMATION

International application No. PCT/US98/22790

International filing date (day/month/year) 27 October 1998 (27.10.98)

Priority date (day/month/year)
27 October 1997 (27.10.97)

**Applicant** 

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK et al

The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following
Offices of its election:

EP :AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE

National : CA, JP, KR, US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

National :MX

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

**Docketed** 

For 4/272000 by

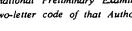
COPY TO +649 7(14

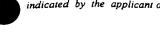
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer:

Sean Taylor

Telephone No. (41-22) 338.83.38

SUS





### **CHAPTER II**

#### **DEMAND**

under Article 31 of the Patent Cooperation Treaty: The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For I	nternational Preliminary I	Examining Authority	use only	
		Day of accient of DI	EMAND	
Identification of IPEA		Date of receipt of DI		
Box No. I IDENTIFICATION OF TH	E INTERNATIONAL A	PPLICATION	Applicant's or agent's file reference 31358-PCT	
International application No.	International filing date	(day/month/year)	(Earliest) Priority date (day/month/year)	
PCT/US98/22790	27 October 1998	( 27.10.98 )	27 October 1997 ( 27.10.97 )	
Title of invention WATERMARKING OF DIGITAL IMAG	E DATA			
Box No. II APPLICANT(S)				
Name and address: (Family name followed designation. The addre.	l by given name; for a le ss must include postal code d	gal entity, full official and name of country.)	Telephone No.:	
THE TRUSTEES OF COLUMBIA UNI	VERSITY IN THE CITY	OF NEW YORK	Facsimile No.:	
New York, NY 10027 US			Teleprinter No.:	
State (that is, country) of nationality:		State (that is, country US		
Name and address: (Family name followed name of country.)	by given name; for a legal	entity, full official desig	gnation. The address must include postal code and	
CHANG, Shih-Fu S.W. Mudd Building, Rm. 1312 Department of Electrical Engineering Columbia University New York, NY 10027 US				
State (that is, country) of nationality:	.·	State (that is, country US	ry) of residence:	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)				
MENG, Jianhao 435 West 119th Street, #9L New York, NY 10027 US				
State (that is, country) of nationality:		State (that is, count US	ry) of residence:	
Further applicants are indicated or	n a continuation sheet.			

Sheet No. . 2.

ernational application No.
PCT/US98/22790

B <sub>0</sub> x N <sub>0</sub> . III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE			
The following person is agent common representative			
and has been appointed earlier and represents the applicant(s) also for international and the second	tional preliminary examination.		
is hereby appointed and any earlier appointment of (an) agent(s) /commo	•		
is hereby appointed and any earlier appointment of (any agents) restances			
addition to the agent(s)/common representative appointed earlier.			
Name and address: (Family name followed by given name; for a legal entity, full official The address must include postal code and name of country.)	Telephone No.: (212) 705-5000		
TANG, HENRY and	(2.2, 100 000		
BUSINGER, PETER A.	Facsimile No.:		
Baker & Botts, LLP 30 Rockefeller Plaza	(212) 705-5020		
New York, NY 10112-0228	Teleprinter No.:		
us			
· .			
Address for correspondence: Mark this check-box where no agent or come the space above is used instead to indicate a special address to which correspondence:	mon representative is/has been appointed and espondence should be sent.		
BOX NO. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION			
Statement concerning amendments:*			
1. The applicant wishes the international preliminary examination to start on the ba	sis of:		
the international application as originally filed.			
the description as originally filed			
as amended under Article 34			
at a late of a containable filed	·		
the claims as originally filed as amended under Article 19 (together with any acc	ompanying statement)		
	ompanying statements		
as amended under Article 34			
the drawings as originally filed			
as amended under Article 34	•		
2. The applicant wishes any amendment to the claims under Article 19 to 1	ne considered as reversed.		
3. The applicant wishes the start of the international preliminary examination to be postponed until the expiration of			
20 months from the priority date unless the International Preliminary Examing Authority receives a copy of any			
amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). (This check-box may be marked only where the time limit under Article 19 has not yet expired.)			
* Where no check-box is marked, international preliminary examination will start on the basis of the international application as			
originally filed or, where a copy of amendments to the claims under Artic	le 19 and/or amendments of the international		
application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.			
Language for the purposes of international preliminary examination: Englis	h		
which is the language in which the international application was filed.			
which is the language of a translation furnished for the purposes of international search.			
which is the language of publication of the international application.  which is the language of the translation (to be) furnished for the purposes of international preliminary examination.			
Box No. V ELECTION OF STATES	and and orbitals are bound by Chanton II after		
The applicant hereby elects all eligible States (that is, all States which have been designed)	gnaiea ana wnich are bouna by Chapier II of the		
excluding the following States which the applicant wishes not to elect:			
excluding the following states which the applicant wishes not to elect.			

Sheet No. .3.

nternational application No.

PCT/US98/22790

Box No. VI CHECK LIST						
The Box	demand is accompanied by the following No. IV, for the purposes of international p	g elements, in the landereliminary examination	nguage re	ferred to in		onal Preliminary uthority use only not received
1.	translation of international application	:		sheets		
2.	amendments under Article 34	; ·		sheets		
3.	copy (or where required, translation) of amendments under Article 19	:	•	sheets		
4.	copy (or, where required, translation) of statement under Article 19	:		sheets		
5.	letter	:		sheets		
6.	other (specify)	:		sheets		
The	demand is also accompanied by the item(s)	marked below:				
1.	fee calculation sheet		4.	statement ex	plaining lack of signa	ture
2.	separate signed power of attorney		5.	nucleotide a	nd or amino acid sequadable form	ence listing in
3.	copy of general power of attorney; reference number, if any:		6.	•	ரு): Transmittal Lette	er
Вох	No. VII SIGNATURE OF APPLIC	ANT, AGENT O	R COM	MON REP	RESENTATIVE	
Nex	to each signature, indicate the name of t	he person signing a	ind the co	apacity in wh	hich the person signs	(if such capacity is not
obvi	ous from reading the demand).					
·						
	Poto A Duringer					
		Peter A. Busi	nger (Ag	ent)		
			V	-		
	For Interna	ational Preliminary	Examinin	g Authority	use only	
Date of actual receipt of DEMAND:						
Adjusted date of receipt of demand due     to CORRECTIONS under Rule 60.1(b):						
The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.  The applicant has been informed accordingly.						
4. The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.						
5.	5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.					
		- For Internationa	l Bureau	use only —		
Den	nand received from IPEA on:					

CHAPTER II

# **PCT**

## FEE CALCULATION SHEET

## Annex to the Demand for international preliminary examination

International application No.	PCT/US98/22790	For International Preliminary Examining Authority use only
Applicant's or agent's file reference	31358-PCT	Date stamp of the IPEA
Applicant THE TRUSTEES OF COLU	MBIA UNIVERSITY IN THE CI	TY OF NEW YORK
Calculation of prescribed f	ees	
1. Preliminary examination	fee	490.00 P
Where the applicant is entitled, the amount to be	ats from certain States are f 75% of the handling fee. (or all applicants are) so the entered at H is 25% of the	162.00 H
3. Total of prescribed fees Add the amounts entered and enter total in the TOT	at P and H AL box	652.00 TOTAL
Mode of Payment		
authorization to chan account with the IPE  cheque  postal money order  bank draft	revenu	ns (specify):
Deposit Account Authoriza	] (this check-har may he market	the total fees indicated above to my deposit account.  If any if the conditions for deposit accounts of the IPEA so permit) is any deficiency or credit any overpayment in the total fees indicated
02-4377 Deposit Account Number	27 May 1999 Date (day/month/year)	Petu A. Burnyer Signature

Form PCT/IPEA/401 (Annex) (July 1998)

LegalStar 1998, Form PCTDFEE

See Notes to the fee calculation sheet

From the INTERNATIONAL PRELIMINARY SAMINING AUTHORITY

PCI

Tα

HENRY TANG
BAKER & BOTTS, LLP
30 ROCKEFELLER PLAZA
NEW YORK NY 10112-0228

NOTIFICATION OF RECEIPT OF DEMAND

NEW YORK NY 10112-0228		CT Rule 61.1(b), first sentence inistrative Instructions, Section 601)
	Date of mailing (daylmonthlyear)	<b>10</b> JUN 1999
Applicant's or agent's file reference 31358-PCT	IM	PORTANT NOTIFICATION
International application No. PCT/US98/22790	ernational filing date (day month year) 27 OCT 98	Priority date (day/month/year) 27 OCT 97
Applicant THE TRUSTEES OF COLU OF NEW YORK	MBIA UNIVERSITY IN THE CI	TY
The applicant is hereby notified that the date of receipt of the demand for integral of the demand.	ernational preliminary examination of the	Authority considers the following date as the he international application:
	2 7 MAY 1999	RECEIVED BAKER A TOTTS, L.L.P.
the actual date of receipt is:  the date on which the property of the date of	t of the demand.	99 JUN 18 PM 2: 33

This date is AFTER the expiration of 19 months from the priority date.

Attention: The election(s) made in the demand does (do) not have the effect of postponing the commencement of the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)). Therefore, the acts for entry into the national phase must be performed within 20 months from the priority date (or later in some Offices) (Article 22).

For details, see Annex B to Form PCT/IB/301 sent by the International Bureau and Volume II of the PCT Applicant's Guide.

This notification confirms the information given in person or by telephone on:

4. Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau.

Name and mailing address of the IPEA/US Assistant Commissioner for Patents

Box PCT

Washington, D.C. 20231

Facsimile No.

3.

Attn: IPEA/US

Authorized officer

Telephone No.

Dian Sellers

PCT/Internat'l Appl Processing Div.

77031\_305-3742

Form PCT/IPEA/402 (July 1992)

99 MAR 12 PM 2: 58

FROM THE INTERNATIONAL SEARCHING AUTHORITY	22 111 2. 30			
HENRY TANG BAKER & BOTTS, LLP 30 ROCKEFELLER PLAZA NEW YORK NY 10112-0228  Applicant's or agent's file reference 31358-PCT International application No.	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION  (PCT Rule 44.1)  Date of Mailing (day/month/year) 24 FEB 1999  FOR FURTHER ACTION See paragraphs 1 and 4 below International filing date (day/month/year)			
PCT/US98/22790	27 OCTOBER 1998			
THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CI				
The applicant is hereby notified that the international search report has been established and is transmitted here.  Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):  When? The time limit for filing such amendments is normally 2 months from the date of transmittal international search report, however, for more details, see the notes on the accompanying sheet.  Where? Directly to the International Bureau of WIPO  34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35  FOR 9 / 29 / 15  For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:  the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
• •	no applicant will be nounced as soon as a decision is made.			
4. Further action(s): The applicant is reminded of the follows. Shortly after 18 months from the priority date, the internation the applicant wishes to avoid or postpone publication, a priority claim; must reach the International Bureau as precompletion of the technical preparations for international.	nal application will be published by the International Bureau. If notice of withdrawal of the international application, or of the			
Within 19 months from the priority date a demand for inter-	madamatan et et e			
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.				

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 1994)\* Authorized officer

JEAN W. DESIR

Telephone No. (703) 308-9571

(See notes on accompanying sheet)

COPY TO HUT MAN 3 19199

& Selecces in Pocket &

99 SEP 13 AH11: 27

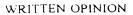
From the INTERNATIONAL	PRELIMINARY EXAMINING AUTHORITY	
T.,		

**PCT** 

HENRY TANG BAKER & BOTTS, LLP 30 ROCKEFELLER PLAZA NEW YORK NY 10112-0228			WRITTEN OPINION (PCT Rule 66)	BEV
		Date of Mailing (day/month/year)	08 SEP 1999	
Applicant's or agent's file reference			within TWO months from the above date of mailing	
International application No.	International filing dat	e (day/month/year)	Priority date (day/month/year)	
PCT/US98/22790	27 OCTOBER 1998	3	27 OCTOBER 1997	
International Patent Classification (IPC Please See Supplemental Sheet.  Applicant THE TRUSTEES OF COLUMBIA			RK	:

1.	This written o	pinion is the first (first, etc.) drawn by this International Preliminary Examining Authority.			
2:	This opinion contains indications relating to the following items:				
	ιx	Basis of the opinion			
	. 11	Priority			
	ш	Non-establishment of opinion with regard to novelty, inventive step or industrial applicability			
	IV	Lack of unity of invention			
	VX	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	VI 🔲	Certain documents cited DOCKETED			
	VII	Certain defects in the international application FOR   / 1999 BY			
	VIII	Certain defects in the international application  FOR     / 1999 BY/			
3.	The applicant	is hereby invited to reply to this opinion.			
	When?	See the time limit indicated above. The applicant-may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).			
	How?	By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.			
	Also	For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bit. For an informal communication with the examiner, see Rule 66.6.			
	If no reply	is filed, the international preliminary examination report will be established on the basis of this opinion.			
4.	4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 27 FEBRUARY 2000				
		Value in Africa (			

Name and mailing address of the IPEA US  Commissioner of Patents and Trademarks  Roy POT	JEAN W. DESIR HATTURE TO THE STATE OF THE ST
the straining of the st	Telephone No. (703) 308-9571



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Into	mation	al ar	mlica	tion	Nο	

PCT/US98/22790

l.	Basis of t	he opinion		
1. Tì	his opinion wikition under	has been drawn on Anicle 14 are referred	the basis of (Substitute shee to in this opinion as "originally	ets which have been furnished to the receiving Office in response to an if filed".):
	X	the internationa	l application as origin	nally filed.
	X	the description.	pages NONE	, as originally filed, filed with the demand, filed with the letter of
	X	the claims.	Nos. NONE NONE	, as originally filed, as amended under Article 19, filed with the demand, filed with the letter of
	X	the drawings.	sheets/fig NONE	, as originally filed. , filed with the demand. , filed with the letter of
2.	X X X	the description the claims. the drawings.	Nos. NONE sheets/ <del>lig</del> NONE	
3 [	cor ·R	is opinion has be usidered to go bevole le <sup>TO</sup> 2000 al observations,	ond the disclosure as fil	some of) the amendments had not been made, since they have been ed, as indicated in the Supplemental Box Additional observations below
:				



International application No.
PCT/US98/22790

Reasoned statement under Rule 66.2 citations and explanations supportin	<del></del>		
STATEMENT			
Novelty (N)	Claims	NONE	
	Claims		
Insuration Committee	Claims	NONE'	
Inventive Step (IS)		1-5	
Industrial Applicability (IA)	Claims	1-5	
maaama , qqmaamii (m)		NONE	
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the image;" is met at least by Figure 2 iter the claimed " and superposing the the image." is met at least by Figure 2 iter Claim 2 is met at least by first three lines	m Watermark Sign transformed report Mark.  of page 9.	gnal W(k); resentation of the watermark on the	
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International application No. PCT/US98/22790

Sunn	lement	al Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(6). H04K 1/00: H04L 9/00: G09C 5/00 and US CI.: 380/4; 382/100, 232; 348/589, 600, 586; 345/194, 116, 114, 113

#### PATENT COOPERATION TREAT.

To:

From	tha l	NTERN	ΔΤΙΩΝ	ΔΙ	<b>BUREAU</b>

#### **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

United States Patent and Trademark Office

(Box PCT) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year)

22 June 1999 (22.06.99)

in its capacity as elected Office

International application No.

PCT/US98/22790

Applicant's or agent's file reference
31358-PCT

International filing date (day/month/year)
Priority date (day/month/year)
27 October 1998 (27.10.98)
27 October 1997 (27.10.97)

**Applicant** 

CHANG, Shih-Fu et al

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		27 May 199	99 (27.05.99)		
in a	notice effecting late	r election filed with the l	nternational Bureau	on:	
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	(C)				
The election	n X was			•	
	was not				
		19 months from the prior	rity date or, where l	Rule 32 applies,	within the time limit unde
Rule 32.2(t	).				

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Sean Taylor

Telephone No.: (41-22) 338.83.38